Atty Dkt No. 5100-0707 USSN: 09/766,273 PATENT

#### **REMARKS**

The foregoing amendments are made to insert sequence identifiers. No new matter is added. Entry of the amendments is respectfully requested.

Respectfully submitted,

Date: 5 22 06

By:

Roberta L. Robins Registration No. 33,208 Attorney for Applicants

Robins & Pasternak LLP 1731 Embarcadero Road, Suite 230

Palo Alto, CA 94303 Tel: 650 493-3400

Fax: 650 493-3440



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**Portal Home Patents** Other **Trademarks** Sign-Off Authenticated Session Patent eBusiness Secured Patent Application Information Retrieval **Electronic Filing** Order Certified Application As File Patent Application Information Oligonucleotide-tagged semiconductor i (PAIR) 09/766,273 hybridization + Patent Ownership **H** Fees Select Application Transaction Image File Continuity Publish **Supplemental Resources & Support** New Case History Wrapper Docum **Transaction History Patent Information Date** Transaction Description Patent Guidance and General Info **Codes, Rules & Manuals** 04-25-2006 Mail Restriction Requirement **Employee & Office Directories** 04-24-2006 Requirement for Restriction / Election + Resources & Public Notices 04-19-2006 Case Docketed to Examiner in GAU 04-12-2006 Date Forwarded to Examiner **Patent Searches** Response to a Letter to Comply with the Sequen 11-20-2002 Patent Official Gazette **Search Patents & Applications** 04-13-2006 Mail Notice of Rescinded Abandonment **Search Biological Sequences** 04-12-2006 Notice of Rescinded Abandonment in TCs Copies, Products & Services 12-08-2003 Correspondence Address Change 12-09-2003 Change in Power of Attorney (May Include Assoc Other Copyrights 07-20-2003 IFW TSS Processing by Tech Center Complete <u>Trademarks</u> 07-20-2003 IFW TSS Processing by Tech Center Complete Policy & Law Reports 07-20-2003 IFW TSS Processing by Tech Center Complete 07-20-2003 IFW TSS Processing by Tech Center Complete 04-03-2003 Information Disclosure Statement (IDS) Filed 02-12-2003 Petition to Revive Application - Granted 11-24-2002 Petition Entered 12-13-2002 CRF Is Good Technically / Entered into Database 10-25-2002 Mail Abandonment for Failure to Respond to Offi 10-25-2002 Abandonment for Failure to Respond to Office Ac 04-15-2002 Information Disclosure Statement (IDS) Filed 04-15-2002 Information Disclosure Statement (IDS) Filed 03-28-2002 Case Docketed to Examiner in GAU 03-20-2002 Mail Letter Requiring CRF (Unreadable, Non-Con 03-20-2002 CRF Diskette Unreadable / Did Not Comply / Rec 02-19-2002 Information Disclosure Statement (IDS) Filed 02-21-2002 CRF Does Not Match Application Specification --02-12-2002 Date Forwarded to Examiner 12-26-2001 Response to Election / Restriction Filed 02-07-2002 Case Docketed to Examiner in GAU 11-27-2001 Mail Restriction Requirement 11-26-2001 Requirement for Restriction / Election 10-04-2001 Petition Decision - Granted

06-25-2001	Petition Entered
05-30-2001	Preliminary Amendment
09-21-2001	Case Docketed to Examiner in GAU
08-31-2001	Application Dispatched from OIPE
03-29-2001	Application Is Now Complete
03-29-2001	Application Is Now Complete
08-03-2001	Correspondence Address Change
07-09-2001	CRF Is Good Technically / Entered into Database
03-29-2001	Notice MailedApplication IncompleteFiling Da
03-28-2001	Correspondence Address Change
02-06-2001	IFW Scan & PACR Auto Security Review
01-18-2001	Initial Exam Team nn

#### If you need help:

- Call the Patent Electronic Business Center at (866) 217-9197 Patent Application Information Retrieval (PAIR).
- Send general questions about USPTO programs to the USPTC
- If you experience technical difficulties or problems with this a Support or call 1 800-786-9199.

You can suggest USPTO webpages or material you would like featured on this section by E-mail to the <a href="webmaster@uspto.gc">webmaster@uspto.gc</a> considered and may lead to other improvements on the

Home | Site Index | Search | eBusiness | Help | Privacy Policy

ATTORNEY DOCKET 5100-0707

DATE November 15, 2002

- Transmittal Letter

- Petition to Withdraw Holding of Abandonment

- Copy of Notice of Abandonment (Exhibit A)

- Copy of Mail Logs (Exhibit B)

- Supplemental Amendment

- Hardcopy of Sequence Listing

- Floppy Disk of Sequence Listing

PAPER: \_\_\_\_

INVENTOR: Bittner et al.

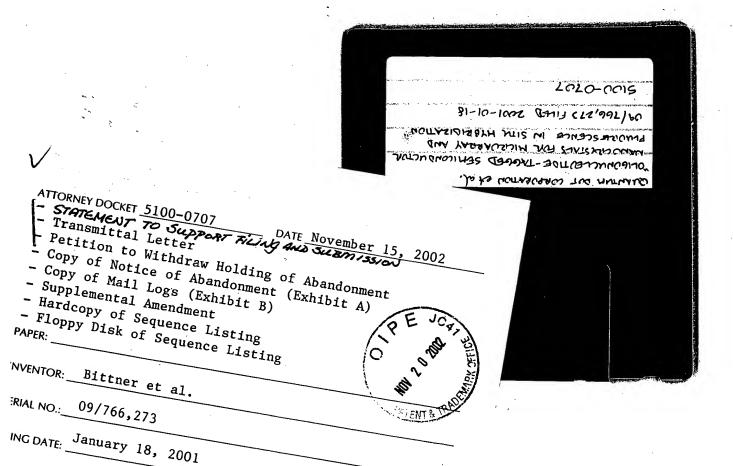
SERIAL NO.:

09/766,273

FILING DATE:

January 18, 2001

RECEIVED BY THE UNITED STATES PATENT AND TRADEMARK OFFICE



RECEIVED BY THE UNITED STATES PATENT AND TRADEMARK OFFICE



# Atty Dkt No. 5100-0707

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on hovember 15, 2002

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Bittner et al.

Serial No.: 09/766,273

Filing Date: January 18, 2001

Group Art Unit: 1634

Examiner: Sakelaris, S.A.

Title:

OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR

NANOCRYSTALS FOR MICROARRAY AND FLUORESCENCE IN

SITU HYBRIDIZATION

#### TRANSMITTAL LETTER

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Enclosed are the following:

- Petition to Withdraw Holding of Abandonment; 1)
- 2) Exhibit A - (copy of Notice of Abandonment);
- 3) Exhibit B - (copy of Mail Logs);
- Supplemental Amendment; 4)
- Statement to Support Filing and Submission; 5)
- 6) Hardcopy of the Sequence Listing;
- 7) Floppy diskette of Sequence Listing; and
- Return postcard. 8)

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 which may be required by this paper, or to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

Date: Novembu 15/2002

Narinder S. Banait

Registration No. 43,482

ROBINS & PASTERNAK LLP 545 Middlefield Road, Suite 180

Menlo Park, CA 94025 Telephone: (650) 325-7812 Facsimile: (650) 325-7823



Atty Dkt No. 5100-0707 USSN: 09/766,273

# PATENT

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Michael Bittner et al.

Serial No.: 09/766,273

3 Art Unit: 1634

Filing Date: January 18, 2001

Examiner: Sakelaris, S.A.

Title:

OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR

NANOCRYSTALS FOR MICROARRAY AND FLUORESCENCE IN

SITU HYBRIDIZATION

#### PETITION TO WITHDRAW HOLDING OF ABANDONMENT

Box DAC Assistant Commissioner for Patents Washington, D.C. 20231

#### Dear Sir:

Applicants provide this Petition pursuant to the provisions of 37 CFR §1.181(a) and MPEP §711.03(c)II in order to withdraw a holding of abandonment on the above-identified application. In particular, applicants received a Notice of Abandonment dated October 25, 2002 for failure to timely file a proper reply to the Office letter mailed on March 20, 2002. A copy of the Notice is attached as Exhibit A. However, applicants did not receive the March 20, 2002 letter. It is normal practice to enter the PTO mailings into the MAIL LOG docketing system on a day of the receipt of the mail. Applicants include copies of the docket for the period of March 20, 2002 through April 2, 2002, appended hereto as Exhibit B. The docket indicates that the Office letter was not received.

Atty Dkt No. 5100-0707 USSN: 09/766,273 PATENT

Accordingly, applicants submit that the application should not have been abandoned and respectfully request that the application be reinstated.

Applicants include a reply to the Office Action mailed on March 20, 2002, as required by MPEP §711.03(c).

The Office is authorized to pay any additional fees which may be required by this paper, or to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

Date: 2002

Narinder S. Banait

Registration No. 43,482

ROBINS & PASTERNAK LLP 545 Middlefield Road, Suite 180 Menlo Park, CA 94025

Telephone: (650) 325-7812

Fax: (650) 325-7823



# **EXHIBIT** A





#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/766,273 20855 7	01/18/2001	Michael Bittner	22564-0707 5/00-070-	1332 7
545 MIDDLEI SUITE 180	-	CEIVED	EXAMI SAKELARIS	
MENLO PAR		OCT 3 0 2002	ART UNIT	PAPER NUMBER
	ROB	IINS & PASTERNAK LLP	1634 DATE MAILED: 10/25/2002	17

Please find below and/or attached an Office communication concerning this application or proceeding.

5100-0707
Petition to Revive/
Withdraw Holding
of Abandon ment
11/30/02

	Application No.	Applicant(s)
Notice of Abandanment	09/766,273	BITTNER ET AL.
Notice of Abandonment	Examiner	Art Unit
	Sally A Sakelaris	1634
The MAILING DATE of this communication app	·	
This application is abandoned in view of:		
Applicant's failure to timely file a proper reply to the Office     (a) ☐ A reply was received on (with a Certificate of M period for reply (including a total extension of time of)      A representation	failing or Transmission dated month(s)) which expired on	· ·
(b) A proposed reply was received on, but it does it		· · · · · · · · · · · · · · · · · · ·
(A proper reply under 37 CFR 1.113 to a final rejection application in condition for allowance; (2) a timely filed Continued Examination (RCE) in compliance with 37 (	Notice of Appeal (with appeal fee); of	
(c) A reply was received on but it does not constitution final rejection. See 37 CFR 1.85(a) and 1.111. (See		mpt at a proper reply, to the non-
(d) ⊠ No reply has been received.		
<ol> <li>Applicant's failure to timely pay the required issue fee and from the mailing date of the Notice of Allowance (PTOL-8)</li> </ol>		the statutory period of three months
(a) ☐ The issue fee and publication fee, if applicable, was), which is after the expiration of the statutory per Allowance (PTOL-85).	received on (with a Certificate in the issue fee (and its fee )	te of Mailing or Transmission dated d publication fee) set in the Notice of
(b) The submitted fee of \$ is insufficient. A balance	e of \$ is due.	•
The issue fee required by 37 CFR 1.18 is \$ 1	The publication fee, if required by 37	CFR 1.18(d), is \$
(c) The issue fee and publication fee, if applicable, has no	ot been received.	
<ol> <li>Applicant's failure to timely file corrected drawings as requ Allowability (PTO-37).</li> </ol>	ired by, and within the three-month p	period set in, the Notice of
(a) Proposed corrected drawings were received onafter the expiration of the period for reply.	(with a Certificate of Mailing or Tran	smission dated), which is
(b) $\square$ No corrected drawings have been received.		
<ol> <li>The letter of express abandonment which is signed by the the applicants.</li> </ol>	e attorney or agent of record, the assi	gnee of the entire interest, or all of
<ol> <li>The letter of express abandonment which is signed by an 1.34(a)) upon the filing of a continuing application.</li> </ol>	attorney or agent (acting in a repres	entative capacity under 37 CFR
<ol> <li>The decision by the Board of Patent Appeals and Interference of the decision has expired and there are no allowed claim</li> </ol>		e the period for seeking court review
7. The reason(s) below:		
CARLA J. MYERS PRIMARY EXAMINER		

Petitions to revive under 37 CFR 1.137(a) or (b), or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

U.S. Patent and Trademark Office
PTO-1432 (Rev. 04-01)

Notice of Abandonment

Part of Paper No. 17



EXHIBIT B

## MAIL LOG March 20, 2002

# ATTY DOC# DESCRIPTION

DSP

COPY

rev a v	na courter 3-19	
RLR	7011-XXX	new US provisional patent applications (2)
DSP	6750-xxxx	ltr fr Cooley w/correspondence for transferred files
DSP	8325-0020	ltr re IDS
DSP	8325-0018.40	ltr re do not request Chapter II processing
DSP	8325-0019.40	ltr re do not request Chapter II processing
GRF	2750-0230.01	ltr w/copy of issued patent 6,356,776
RLR	8400-0010	Advisory Action
DSP	2300-1621.41s	o.africa copy of executed Assignment
DSP	2300-1527.	Ltr w/copy of Notice of Allowability
RLR	2300-0953.52	cc ltr fr Chang to Chiron re filed Amendment
DSP	6750-0001.40	PCT-Notice Informing the Applicant of the Communication If the Intl
RLR	2302-1631.20	copy of Declaration of Susan E. Wilson
RLR	7050-0003.10	fr Roche documents for our file

6750-0007.45 ltr fr Cooley correspondence for transferred files

# MAIL LOG March 21, 2002



<u>ATTY</u>	DOC#	DESCRIPTION
RLR	9000-0057.40	ltr fr Gowlings w/copy of PCT Intl. Search Report
RLR	9000-0055.40	ltr fr Gowlings w/copy of PCT Intl. Search Report
DSP	2300-0999	ltr w/copy of Office Action
RLR	2300-0946.20	ltr w/copy of U.S. Patent 6,355,247
DSP	8325-0007.43	conf. copy ltr fr Mewburn re entering regional phase at EPO
RLR	0800-0008.41	CPA-Official Receipt
RLR	2300-1651.	Itr requesting preparing and filing application
GRF	2750-0209.03	ltr w/copy of Corrected Filing Receipt

# March 22, 2002



PTO	Notice of Publication - 09/915,947 (3930-0804.01)
PTO	Not. File Miss. Pts. & OFR - 10/084,826 (8325-0014.20)
PTO	RLR - postcard confirming req. for Cert. of Corr Patent # 5,858,351
EP/ISA	DSP - Notif. of Receipt of Search Copy - PCT/US01/49623 (8600-0010.40)
EP/ISA	DSP - PCT/ISA/224 - delay of ISR establishment (8600-0010.40)
TIPLO	RLR - OA, rsp due 3-May-02 (5998-0019.42)
PTO	Decision on petition (Granted) (3941-0001.20)
BGL	RLR - cc of letter to Chiron (2302-6146.41)
F B RICE	RLR - reminder of rsp due 11-Sep-02 (2302-1413.44)
PTO	monthly statement of deposit account; closing balance 4265.00
J A KEMP	cc of letter (oral proceedings minutes) to Chiron
PTO	Office Action, PTO-892, 4 cited refs (5050-0022)
Cygnus	GRF - copy of PCT published application - 2750-0240.40
Cygnus	GRF - copy of PCT published application - 2750-0242.40
Cygnus	GRF - copy of PCT published application - 2750-0243.40
Marvel, O'Far	rell & Mairal brief requesting examination & invoice \$707.50 (9001-0042.41) -
	arrived via DHL courier, was sent to 90 Middlefield #180



# March 25, 2002

# FED EX

RLR	0800-0021	signed declaration
US MAIL - co	ourier pickup	
DSP DSP DSP	8325-0011 3930-0911 8325-0027P2	Notice re Acceptance of Fee Deficiency Recorded Assignments (two) Copy of Provisional Appln filed 3/21/02
RLR RLR RLR RLR RLR RLR RLR RLR	9325-0001.40 0800-0024 2300-0115.43 9001-0016.66 9001-0033.44 0800-0009.41 0800-0009.51 5100-0005.40	Invitation to Correct Defects Updated Filing Receipt Yamamoto ltr re OA CPA annuity receipt CPA annuity receipt CPA annuity receipt CPA annuity receipt IPER
NSB	5100-0002.42	Barovsky insts to pay annuity
GRF GRF	9400-0002 2750-0241.40	ref from E. Johnson copy of published PCT from B. McBrayer

# US MAIL - mailman pm delivery

SL	various	CPA reminder notices
GRF	9400-?	PXE-012.US Office Action
RLR RLR RLR RLR RLR RLR	2300-0401.45 2302-1238.40 9001-0048.44 5050-0015 3941-0001.20 0800-?	Kemp ltr re discussion w/Exr Yamamoto ltr re assignment filed Gowling ltr re confirmatory assignment Office Action Issue Notification SN09/449,581 Issue Notification
DSP	6750-0002	Updated filing receipt



# March 26 Mail Log

SL BNA Int'l. info re: subscription to world intellectual property report

DSP RO/US 8325-0011.41 PCT/RO/102, /105, /106

SL Baldwin Shelston Waters Invoice \$2,428.75

DSP Mewburn Ellis 8325-0007.43 designation fees/deadline 14 April 2002

DSP PTO 2225-0017P OFR

# US Mail (pm delivery)

DSP DSP DSP DSP DSP DSP	8325-0010.40 2300-0999.43 3930-1000.01	executed assignment from S. Brennan copy of Written Opinion from S. Brennan Kemp ltr w/filing receipt PTO corrected filing receipt Phillips Ormonde ltr re deadline for requesting exam copy of Written Opinion from Chiron
RLR RLR		PTO filing receipt Notice of Abandonment
GRF	2750-0231	conv of corrected OFR from R. McBraver

CUPY

# March 27, 2002

VIA DHL

RLR 9003-0001.40

executed POA and Power to Inspect

VIA FEDEX

DSP 8600-0010.40

executed appt of agent

DSP 8600-0007.40

executed appt of agent

VIA UPS

RLR 9002-0016.01

Novartis ltr re response to Final OA

US MAIL (pm delivery)

DSP 8325-2009.40

S. Brennan ltr re national phase instructions

DSP 8325-0007.42

Gowlings ltr re natl phase entry

DSP 6750-0007.41

Stanford insts to request examination



### March 28, 2002

### VIA FEDEX

DSP 8325-0021.40 formal drawings

RLR 5050-0032.40 appt of agent

RLR 5050-0031 signed declarations

VIA UPS

DSP 6210-0004 Jensvold returning assignment? DSP 2300-1360 Advisory Action from R. Hale

US MAIL to 90 Middlefield Rd. (Delivered by B. Barnes)

DSP 2300-0037.04 copy of filing receipt

GRF 9400-0013.40 Notice of Receipt of Demand

GRF 9400-0013.40 Written Opinion GRF 2302-1631.21 Notice to Comply

**EXPRESS MAIL** 

DSP 8325-0007.44 Yamamoto ltr re appln filed



# March 29, 2002

# **US MAIL**

RLR 9000-0057.42 Philippine assoc confirmation copy
RLR 9000-0055.42 Philippine assoc confirmation copy
RLR 7777 B. Barnes ltr re 2001 operating expenses

DSP 2300-1651 Hale ltr re draft claims ok

# MAIL LOG April1, 2002

ATTY	DOC#	DESCRIPTION
RLR	9001-0033.44	CPA-Official Receipt
RLR	9001-0016.66	CPA-Official Receipt
RLR	0800-0009.61	CPA-Official Receipt
RLR	0800-0009.41	CPA-Official Receipt
DSP	3930-8000	signed receipt of Assignment
RLR	222-0020	signed receipt of Assignment
RLR	5050-0012	PTO-Notice of Allowance
GRF	2750-0233	ltr w/copy of Notice of Allowance
DSP	8325-0010.40	PCT-Written Opinion
RLR	9003-0001	PTO-Filing Receipt
RLR	2300-0953.52	copy of ltr fr Chang w/english version of Amendment (two copies)
RLR	2300-1679	memo fr Guth w/copy of Office Communication
RLR	2300-1679.40	memo w/copy of PCT Written Opinion
DSP	5050-0031.40	PCT-Communication in Cases for Which no Other Form is Applicable
RLR	9000-0040.56	CPA-Official Receipt
RLR	9001-0001.40	ltr fr Gowlings re reponse due, signed POA; new formal drawings; copy of Appl.
RLR	9000-0049.45	ltr fr Gowlings re POA
RLR	5050-0025	PTO-Updated Filing Receipt
RLR	0800-0017.44	CPA-Official Receipt
DSP	3930-0909.42	ltr fr Gowlings w/copy of Notice of National Entry
RLR	3950-0001.40	PCT-Notification of the Recording a Change
DSP	8325-0012.40	PCT-Notification of the Recording a Change
DSP	8600-0002.40	PCT-Notification of the Recording a Change
DSP	6750-0002.40	PCT-Notification of the Recording a Change
DSP	8325-0018.40	PCT-Notification of the Recording a Change
DSP	8325-0019.41	PCT-Notification of the Recording a Change
DSP	8325-0019.40	PCT-Notification of the Recording a Change
RLR	5050-0026.40	PCT-Notification of the Recording a Change
DSP	8325-0023.40	PCT-Notification of the Recording a Change
RLR	9001-0042	PTO-Issue Notification
RLR		O ltr fr Kemp re abandonment
RLR	9001-0015.02	Maintenance Fee reminder
NSB	2302-0402	ltr w/copy of Office Action
RLR	5050-009.40	PCT-Notification Concerning Payment of Prescribed Fees
RLR	2302-0366	ltr w/copy of Final Office Action
DSP	8325-0011	PTO-Office Communication
NSB	2300-1413	ltr fr Fida re amendments
RLR	9003-0001P	PTO-Notice of recordation & Assignment
~~~~	2002.00011	2.20 Tropos of roots and the Assignment

# MAIL LOG April 2, 2002

ATI	Y DOC#	DESCRIPTION
DSP	8325-0009.40	PCT-Notification of Xtl of Intl. Search Report or the Decl.
RLR	5050-0017.40	PCT-Notification of Xtl of Intl. Search Report or the Decl.
RLR	0800-0008.02	ltr w/copy of interview with the Examiner
RLR	0800-0016	ltr w/copy of interview with the Examiner
RLR	0800-0017	ltr w/copy of interview with the Examiner
RLR	5050-0032.40	PCT-Notice Informing the Appl. of the Comm. of the Intl. Appl. to Desg. Offices
DSP	2400-0004.40	PCT-Notification of Recording of a Change
DSP	3930-0911	signed receipt of Assignment
DSP	3930-0909.41	ltr fr Rice w/Direction to Request Examination
DSP	8325-0014.20	PTO-Filing Receipt & Notice to file Missing Parts
DSP	8325-0007	ltr fr Rice w/copy of Entitlement
DSP	860-0004.40	PCT-Notification of Recording of a Change
RLR	5998-0019.42	ltr w/copy of recent publ. Kupfner et al., J. of Immun. 167:7044-7051 (2001)
RLR	9000-0049.44	ltr fr Gowlings w/official Notice of Ntl. Entry
GRF	9400-0007.55	conf. copy of ltr fr Yamamoto re claims



Atty Dkt: 5100-0707 USSN: 09/766,273

**PATENT** 

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington,

D.C. 20231 on November 15, 2002

71/15/02

Signature

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Michael Bittner et al.

Serial No.: 09/766,273

Filing Date: January 18, 2001

Art Unit: 1634

Examiner: Sakelaris, S.A.

Title: OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR NANOCRYSTALS FOR

MICROARRAY AND FLUORESCENCE IN SITU HYBRIDIZATION

# **SUPPLEMENTAL AMENDMENT UNDER 37 CFR §1.111**

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

This paper supplements the response filed December 21, 2001, which response was considered by the patent office to be a bona fide attempt to comply with the sequence rules. An Office Action mailed March 20, 2002, with a shortened period of one month for response. Accordingly, a Response was initially due by April 20, 2002. However, because the Office Action was not received by the applicants, the response is being filed with a petition to revive the application. The Commissioner is hereby authorized to charge to Deposit Account No. 18-1648 any other fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 which may be required by this paper, with the exception of the payment of the Issue Fee. Reconsideration of the application in view of the following remarks is respectfully requested.

Atty Dkt: 5100-0707 USSN: 09/766,273

**PATENT** 

### **Accompanying Documents**

- 1. Computer-readable copy of the Sequence Listing on diskette;
- 2. Hardcopy printout of Sequence Listing.

#### Remarks

In the Communication dated March 20, 2002, the Patent Office requested applicants comply with the requirements of the sequence rules. Accordingly, submitted herewith is a computer-readable copy and a paper of the Sequence Listing, and statement in support of filing and submission in accordance with 37 C.F.R. §§1.821(c) and (e).

Respectfully submitted,

Date: Novem Der 15/2002

Ву: Даппа

Narinder S. Banait, Ph.D. Registration No. 43,482

Attorney for Applicants

ROBINS & PASTERNAK, LLP 545 Middlefield Road, Suite 180

Menlo Park, CA 94025 Telephone: (650) 325-7812

Fax: (650) 325-7823



I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington,

D.C. 20231 on November 15, 2002

11/15/02 \_\_\_\_ Date

Signature Diene Kizar

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Michael Bittner et al.

Serial No.: 09/766,273

Art Unit: 1634

Filing Date: January 18, 2001

Examiner: Sakelaris, S.A.

Title: OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR NANOCRYSTALS FOR

MICROARRAY AND FLUORESCENCE IN SITU HYBRIDIZATION

# STATEMENT TO SUPPORT FILING AND SUBMISSION IN ACCORDANCE WITH 37 C.F.R. §§ 1.821-1.825

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The undersigned hereby states that the content of the attached papers and the computer-readable copy of the Sequence Listing, submitted in accordance with 37 C.F.R. §§ 1.821(c) and (e), respectively, are the same.

Respectfully submitted,

Date: November 15/2002

Marindar C Daneit

Narinder S. Banait, Ph.D. Registration No. 43,482 Attorney for Applicants

ROBINS & PASTERNAK LLP 545 Middlefield Road, Suite 180 Menlo Park, CA 94025

Telephone: (650) 325-7812

Fax: (650) 325-7823





<110> Quantum Dot Corporation
The Government of the United States of America, as represented by the Secretary, Department of Health and Human Services Bittner, Michael Wong, Edith Y.

Bruchez Jr., Marcel P.

<120> OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR NANOCRYSTALS FOR MICROARRAY AND FLUORESCENCE IN SITU HYBRIDIZATION

<130> 5100-0707

<140> 09/766,273

<141> 2001-01-18

<160> 15

<170> PatentIn Ver. 2.0

<210> 1

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<210> 2

<211> 70

<212> DNA

<213> Homo sapiens

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41





Atty Dkt No. 5100-0707 USSN: 09/766,273

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22/26 Date

Susan La Mont

**TECH CENTER 1600/2900** 

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

BITTNER et al.

Serial No.: 09/766,273

Art Unit: 1655

Filing Date: January 18, 2001

Examiner: Forman, Betty J.

Title:

OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR

NANOCRYSTALS FOR MICROARRAY AND FLUORESCENCE

IN SITU HYBRIDIZATION

#### AMENDMENT TRANSMITTAL LETTER

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Transmitted herewith for filing is a Response to Restriction Requirement in the above patent application in response to the Office Action of November 27, 2001.

- \_\_ Petition for Extension of Time enclosed.
- \_\_\_ No additional fee is required.
- X Also enclosed: Sequence Listing (paper and disk); Statement Regarding Sequence Listing; postcard

No. of Claims After Amendment		Most Claims Previously Paid	-	Extra Claims		Additional Fee		
A. Total Claims	-		=		х	\$18	1	\$
B. Ind. Claims			=		х	\$84		N



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MAY 2 4 2000

C. If amended to contain multiple dependent claims, add 280	\$280	=	\$
D. Total Amendment Fee (Total of A, B & C)		=	
E. If small entity, 50% reduction of Total Amendment Fee (50% of D)		1	
F. Total Amendment Fee (D minus E)		=	\$

- A check for \$ to cover the extension of time fee and extra claims fee is attached.
- \_\_\_ Charge \$ to Deposit Account No. 18-1648.

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 which may be required by this paper, or to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

Date: <u>Dec 24/2001</u>

Registration No. 43,482

Attorney for Applicants

ROBINS & PASTERNAK LLP

90 Middlefield Road, Suite 200

Menlo Park, CA 94025

Telephone: 650-325-7812 Facsimile: 650-325-7823 . CHANCE PROPERTY E.E.D.



Client No. 0008-US
PATENT

2-12.5

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Washington, D.C. 20231 on 26 December 200

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126/01

Susan La Mont

FEB 0'4 2002

TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

BITTNER et al.

Serial No.: 09/766,273

Group Art Unit: 1655

Filing Date: January 18, 2001

Examiner: Forman, Betty J

Title:

OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR

NANOCRYSTALS FOR MICROARRAY AND FLUORESCENCE IN

SITU HYBRIDIZATION

## RESPONSE TO REQUIREMENT FOR RESTRICTION

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

This is in response to the Restriction Requirement dated November 27, 2001. The Examiner therein required election of one of the following groups of claims:

Group I, claims 1-38 and 44, drawn to a method of assaying a sample (classified in class 435, subclass 6); and

Group II, claims 39-43, drawn to a polynucleotide assay complex and kit (classified in class 536, subclass 24.3 and class 422, subclass 61).

Applicants hereby elect to prosecute the claims of Group I, claims 1-38 and 44, without traverse.

ATTY DKT No. 5100-0/07 USSN: 09/766,273

**PATENT** 

Applicants expressly reserve their right under 35 U.S.C. §121 to file one or more divisional applications directed to the nonelected subject matter during the pendency of this application.

## REQUIREMENT TO COMPLY WITH NUCLEIC ACID SEQUENCE RULES

The Examiner requested that the applicant provide a computer readable form, and a paper copy of the "Sequence Listing", as well as a statement that the paper and computer readable copies are the same. The applicants have complied with the sequence rules in their response to "Missing Parts" mailed on May 29, 2001. For the convenience of the office, the applicants herein provide a copy of the computer readable form and a written copy of the sequence listing and the Statement Regarding Sequence Listings as filed.

Please address all further communications to Roberta L. Robins at Customer No. 20855.

Respectfully submitted,

By: <u>Naman</u> Band T.

Date: Dec 2//2001

Narinder S. Banait Registration No. 43,482 Attorney for Applicants

ROBINS & PASTERNAK 90 Middlefield Road, Suite 200 Menlo Park, CA 94025 Telephone: (650) 325-7812

Fax: (650) 325-7823

# Certificate of Mailing/Transmission (37 C.F.R. § 1.8(2)): Danit to 37 C.F.R. § 1.8, I hereby certify that this paper and all enclosures are being deposited with the United States Postal Service as first class mail on indicated below in an envelope addressed to the Assistant Commissioner for Patents, Washington D.C. 20231. Name of Person Certifying: Printed Name: David W. Maher

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Bigants: Michael BITTNER, et al.

Assignees: Quantum Dot Corporation and THE

-GOVERNMENT OF THE UNITED STATES OF

AMERICA, as represented by the Secretary, Department of Health and Human Services

Examiner: Not Yet Assigned

ling Date: January 18, 2001 Serial No.: 09/766,273 Group Art Unit: 1645

Title: OLIGONUCLEOTIDE-TAGGED SEMICONDUCTOR NANOCRYSTALS FOR

MICROARRAY AND FLUORESCENCE IN SITU HYBRIDIZATION

# STATEMENT REGARDING SEQUENCE LISTING UNDER 37 C.F.R. §§ 1.821-1.825

**Assistant Commissioner for Patents** Washington, D.C. 20231

Dear Sir:

The Applicants hereby declare that the content of the computer-readable copy of the

Sequence Listing furnished herewith is the same as the written copy of the Sequence Listing.

Date: May 29, 2001

Respectfully submitted,

David W. Maher

Registration No. 40,077

McCutchen, Doyle, Brown & Enersen, LLP

Three Embarcadero Center San Francisco, California 94111 Telephone: (650) 849-4908

Telefax: (650) 849-4800



# SEQUENCE LISTING



COPY

<110> Quantum Dot Corporation

The Government of the United States of America, as represented by the Secretary, Department of Health and Human Services

Bittner, Michael

Wong, Edith Y.

Bruchez, Marcel P. Jr.

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FEB 0 4 2002

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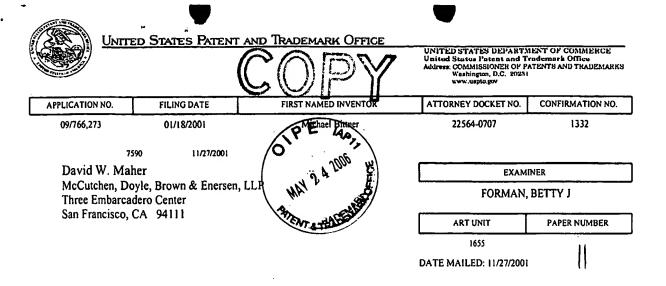
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TECH CENTER 1600/2900

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```



Please find below and/or attached an Office communication concerning this application or proceeding.

To the will be a second of the	мрикацоп по.	Applicated		
	09/766,273	BITTNER ET AL.		
Office Action Summary	Examiner	Art Unit		
ATENT ATTENTION	BJ Forman	1655		
The MAILING DATE of this communication ap	pears on the cover shee	with the correspondence address		
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status				
1) Responsive to communication(s) filed on 18	January 2001 .			
	his action is non-final.			
3)☐ Since this application is in condition for allow	rance except for formal	matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 1-44 is/are pending in the application	n.			
4a) Of the above claim(s) is/are withdra	wn from consideration.			
5) Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) 1-44 are subject to restriction and/or	election requirement.			
Application Papers				
9) The specification is objected to by the Examine	er.			
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to b	y the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.				
12)☐ The oath or declaration is objected to by the E	xaminer.			
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.	C. § 119(a)-(d) or (f).		
a) All b) Some * c) None of:				
1. Certified copies of the priority documen	ts have been received.			
2. Certified copies of the priority documen	ts have been received in	Application No		
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
14) ☐ Acknowledgment is made of a claim for domes	tic priority under 35 U.S.	C. § 119(e) (to a provisional application).		
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes	• •			
Attachment(s)	_			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152) Notice to Comply .		
U.S. Patent and Trademark Office				

PTO-326 (Rev. 04-01)

Application/Control Number: 09/766,273

Art Unit: 1655

#### **DETAILED ACTION**

#### Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-38 and 44, drawn to a method for assaying a sample, classified in class 435, subclass 6.
  - II. Claim 39-43, drawn to a polynucleotide assay complex and kit, classified in class 536, subclass 24.3 and classified in class 422, subclass 61.
- 2. The inventions are distinct, each from the other because of the following reasons:

  Inventions II and I are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used in a materially different process of using that product i.e. the polynucleotide complex and kit of Invention I can be used to identify polynucleotide-binding proteins.
- 3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 09/766,273

Art Unit: 1655

# REQUIREMENT TO COMPLY WITH NUCLEIC ACID SEQUENCE RULES

5. This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

Applicant is given ONE MONTH from the mailing date of this communication within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BJ Forman whose telephone number is (703) 306-5878. The examiner can normally be reached on 6:45 TO 4:15.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones can be reached on (703) 308-1152. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 308-8724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

BJ Forman, Ph.D. November 20, 2001 Supervisory Patent Examiner Technology Center 1600

# NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

X	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	<ol> <li>The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).</li> </ol>
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
Αp	plicant Must Provide:
X	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
X	An <u>initial</u> or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
X	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
or	questions regarding compliance to these requirements, please contact:
or	Rules Interpretation, call (703) 308-4216 CRF Submission Help, call (703) 308-4212 entIn Software Program Support
	Technical Assistance703-287-0200 To Purchase Patentin Software703-306-2600
	PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY